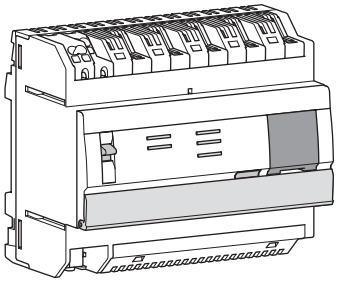
:hager



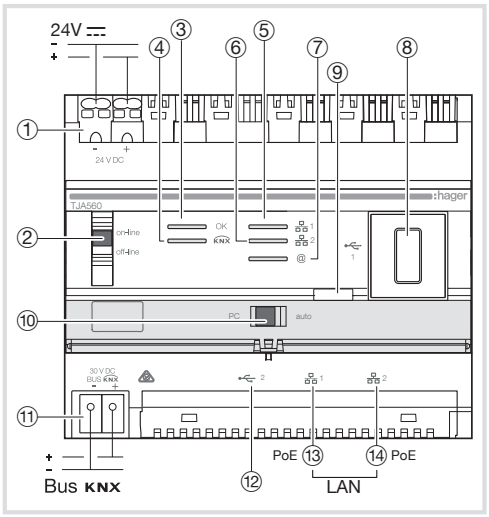
6LE002542A

EN

Hager IoT Controller

TJA560

TP | IP | 230V | Bus 30V | 24V ⎓ | PoE



EN

The TJA560 is a gateway between the KNX products and connected products from third-parties.

The product connects both:

- to the KNX bus via connector ⑪ ;
- and to the local IP network via the two Ethernet ports, ⑬ and ⑭.

The product is equipped with configuration software to create links between KNX products and connected objects. This software operates in conjunction with web browsers installed on tablets, smartphones and PCs.

OS compatibility: iOS 8, Android 4.4, Windows 8.1

Browser compatibility: IE11, Chrome, Firefox.

Installation

Ideally, install the TJA560 in the VDI box of your installation.

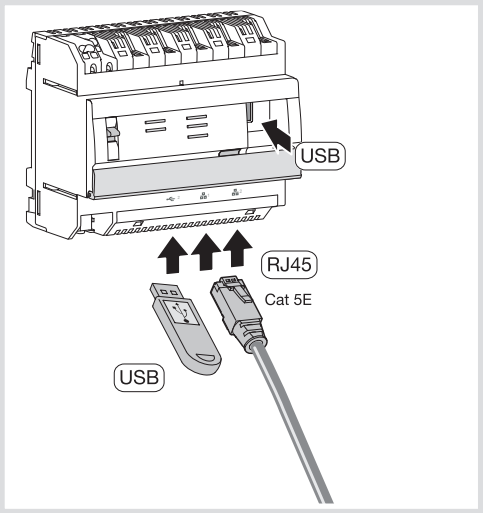
If the installation does not include a VDI box, ensure that the separation of high and low current is respected.

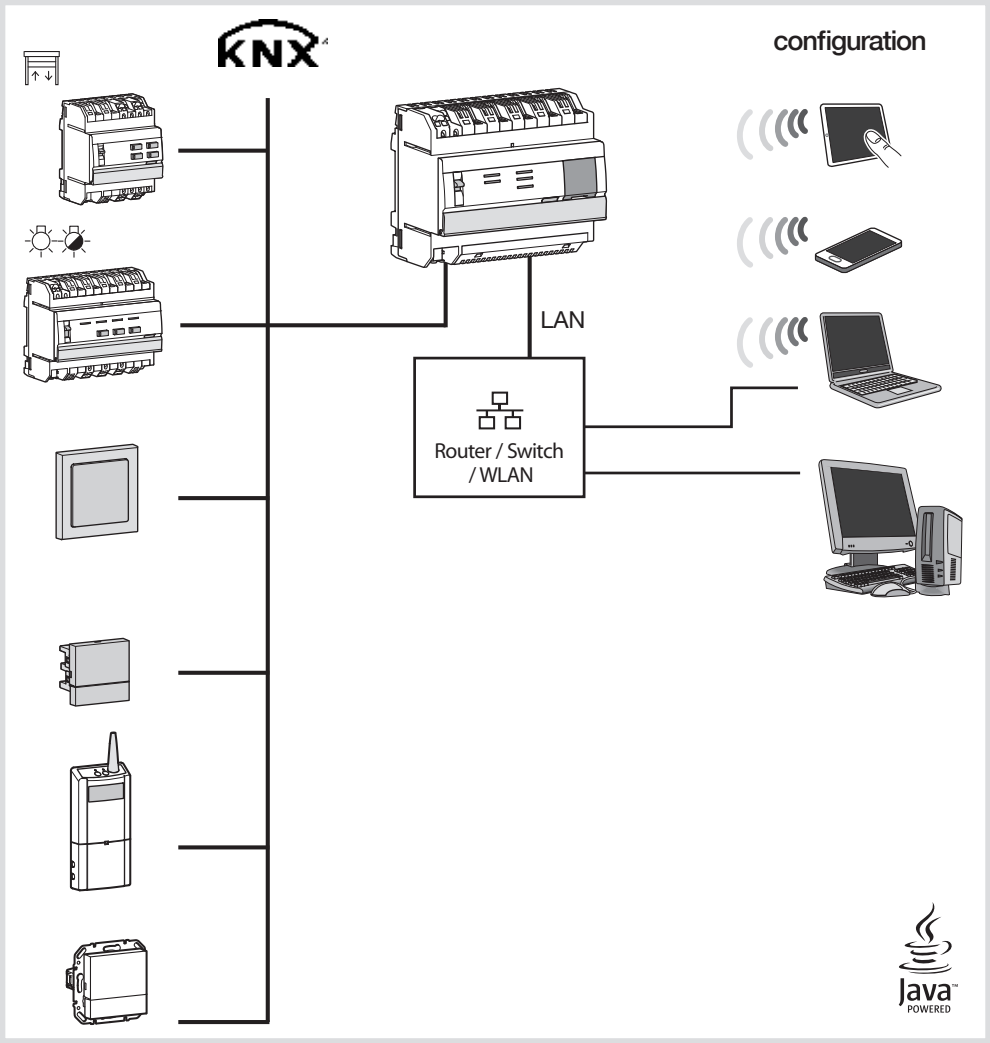
⚠ The device must only be installed by a qualified electrician in accordance with the installation standards in force in your country.
Do not install outside of the building.

Switches		Behaviour of the Ethernet ports			
⑩	②	Ethernet port 1	Ethernet port 2	IP network status	KNX bus status
Auto	on-line	**This is the normal mode of operation of the TJA560 when it is connected to an external router.** **The two ports can be configured via a DHCP server or with a fixed IP address.** - As a DHCP client (factory-set default mode), the TJA560 receives an IP address from the DHCP server connected on the network (the router). If, after 40 seconds, no address has been assigned, the TJA560 automatically assumes the fallback address: 192.168.0.252 - With a static IP address, the TJA560 immediately takes account of the parameters set on the "Server configuration - Internet" tab of the configuration device adjustment menu: • Interface IP address • Subnet mask • Default gateway address NB: Even when there is an IP address conflict on the network (other equipment already using the set IP address), the module will not automatically switch to the fallback address.		On-line	On-line
	off-line	This mode is a fallback mode in which the 2 ports are interchangeable. They are then automatically configured as a DHCP client. - If no IP address has been attributed by the DHCP server after a wait of 40 seconds, the TJA560 automatically assumes the fallback address 192.168.0.252		Off-line	Off-line
PC	on-line	**To be used when a PC is connected directly on the TJA560.** This mode activates the DHCP server included in the module. The 2 ports are interchangeable and configured with the following parameters: - Interface IP address: 192.168.0.252 - Subnet mask: 255.255.255.0 - Default gateway address: 192.168.0.1		On-line	On-line
	off-line	This mode is a fallback mode. The two ports are in DHCP client mode. - If no IP address has been attributed by the DHCP server after a wait of 40 seconds, the virtual interface of the TJA560 module automatically assumes the fallback address 192.168.0.252		Off-line	Off-line

Interpretation of the LEDs

LED function	LED ref.	Status	Description
Power	③	Off	Unit without power
		Blinks green	Unit start-up phase
		Lights up green	Unit started
		Blinks red	Unit supplied by the power reserve (10 s max)
		Lights up red	OS loading error
KNX	④	Off	Unit supplied by the power reserve (10 s max)
		Blinks green	Connected to the KNX bus - bus traffic
		Lights up green	Connected to the KNX bus - no bus traffic
		Lights up red	No KNX bus connection
Ethernet 1 and 2	⑤ and ⑥	Off	No network (or operating on power reserve – 10 s max)
		Blinks green	No DHCP server detected, operating on fallback IP address
		Lights up green	Network detected and IP address allocated
		Lights up red	IP address conflict
		Blinks red	Waiting for IP address allocation
Portal	⑦	Off	No Hager portal connection
		Blinks green	Hager portal connection attempt
		Lights up green	Hager portal connection established
		Lights up red	Hager portal connection inaccessible or connection refused
Bus voltage present	⑨	Lights up red	Check the bus voltage with a short press of button ⑨. Red LED lit indicates KNX bus present.





Technical specifications

KNX power supply	KNX bus SELV 30 V ⎓
External Safety Extra Low Voltage	24 V ⎓ via Hager TGA200 or TXA114 SELV supply or via PoE supply
Consumption on the bus line	10 mA max - 30 V ⎓
Consumption on the auxiliary supply	200 mA max - 24 V ⎓
Standard/Standby consumption on the KNX bus	8 mA
Standard/Standby consumption on the 24 V Ethernet and USB not connected	100 mA
Maximum dissipation (24 V output	5W
PoE Supply Consumption	50 mA
Ethernet network communication	2 x 100 / "1000 BaseT"
Bus connection ⑪	0,6 - 0,8 mm²
IP/Eth ①	0,75 - 2,5 mm²
IP/Ethernet network socket ⑬ ⑭	2 x RJ45
Operating temperature	0 °C —> + 45 °C
Storage temperature	- 20 °C —> + 70 °C
Footprint	6 x 17,5 mm
USB2 interface ⑧ ⑫	2
Installation mode	DIN rail
Operating altitude	< 2000 m
Pollution level	2
Surge voltage	4 kV
Protection rating (box) (box under under faceplate)	IP20 IP30
Impact resistance	IK04
Overvoltage category	III
Standards	EN 60950-1, EN 50491-3, EN 50491-5-2, IEE 802.3 at, USB 2.0, Handbook KNX 2.1